

CLAIMS

1. Flexible, armoured pipe which comprises an inner liner which, among other things, is surrounded by a spirally-wound pressure armour, where
5 this is built up of a number of profiles (10,16,17) in which a number of recesses (10a,10b,10c,10d) are provided, and where the profiles are held together by a number of locking profiles, **characterized in** that at least two of the recesses are provided along adjoining surfaces in the profiles of the spiral winding, and that a locking element (12,14,18) is
10 arranged in a cavity which is formed by the two adjoining recesses, or that the profile is provided with at least one recess and at least one adjoining tongue.
2. Flexible, armoured pipe according to claim 1, **characterized in** that the
15 profile is configured as a K-profile with four recesses.
3. Flexible, armoured pipe according to claim 1, **characterized in** that the K-profile has two recesses (13) which are arranged in the corners of the profile, and that an I-profile (15) is provided in the cavity which is formed
20 by the two recesses in adjoining profiles.
4. Flexible, armoured pipe according to claim 1 – 3, **characterized in** that the locking element wholly or partly fills out the cavity.
- 25 5. Flexible, armoured pipe according to claim 1 – 4, **characterized in** that the locking element (14) is configured as an I-profile.
6. Flexible, armoured pipe according to claim 1 – 3, **characterized in** that the cavity is formed geometrically as two semicircles.

7. Flexible, armoured pipe according to claim 6, *characterized in* that the locking element is configured with a substantially circular cross-section.
- 5 8. Flexible, armoured pipe according to one or more of the foregoing claims, *characterized in* that the locking element is made of an elastic, deformable material.
- 10 9. Flexible, armoured pipe according to claim 1 – 4, *characterized in* that the locking element is configured as a wire with a C-shaped cross-section.
- 10.Flexible, armoured pipe according to claim 1 – 9, *characterized in* that the locking profiles are C-shaped.
- 15 11.Flexible, armoured pipe according to claim 1 – 10, *characterized in* that the profiles consist of a material which wholly or partly is made of metal, a metal alloy or a ceramic-reinforced metal material.
- 20 12.Flexible, armoured pipe according to claim 1 – 11, *characterized in* that the profiles consist of a material which wholly or partly is made of a polymer or an armoured polymer.
- 25 13.Flexible, armoured pipe according to claim 1 – 12, *characterized in* that the inner liner surrounds a carcass, and that the carcass is configured as the pressure armour according to claims 1, 2 or 4 – 9.
- 30 14.Use of a flexible, armoured pipe according to any of the claims 1 – 13 for the transport of fluids such as water, ammonia, hydrocarbons etc.